

Reston-Dulles Corridor Study

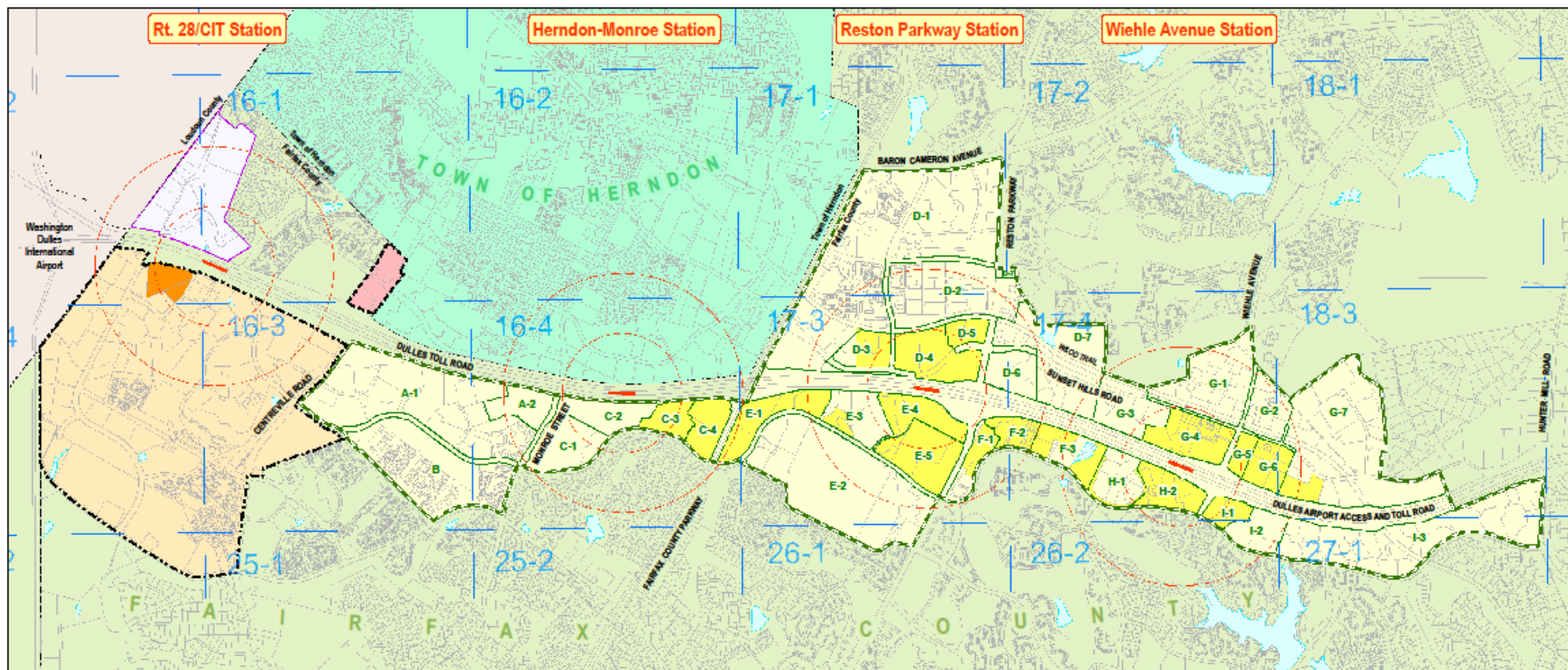
Fire and Rescue Department

08/07/12

Objectives

- Review proposed development scenarios for the Reston-Dulles Corridor based on the Metrorail expansion of the Silver Line (4 additional stations.)
- Analyze current incident activity in station first due response areas.
- Recommend future emergency response needs resulting from the development scenarios.
- Provide comments to Department of Planning and Zoning for future Comprehensive Plan Amendments and development proffers.

Reston-Dulles Corridor Study Area



Reston-Dulles Corridor Special Study Fairfax County, Virginia

Legend

- Special Study Boundary
- Reston-Herndon Suburban Center Land Units and Sub-units
- Group of twenty deferred Hunter Mill APR items in the Reston-Herndon Suburban Center
- Northern Portion of Rt. 28 / CIT Station Area
- Group of three Dranesville APR items in the Rt. 28 / CIT Station Area
- Plan Amendment S07-III-UP2 Authorized on December 3, 2007
- Rocks Site, Dulles Suburban Center, Land Unit A Part of Plan Amendment S07-III-UP2
- Plan Amendment S09-III-UP2
- General Location Transit Station Platforms
Circles denote 1/4 and 1/2 mile distances from center of station platform

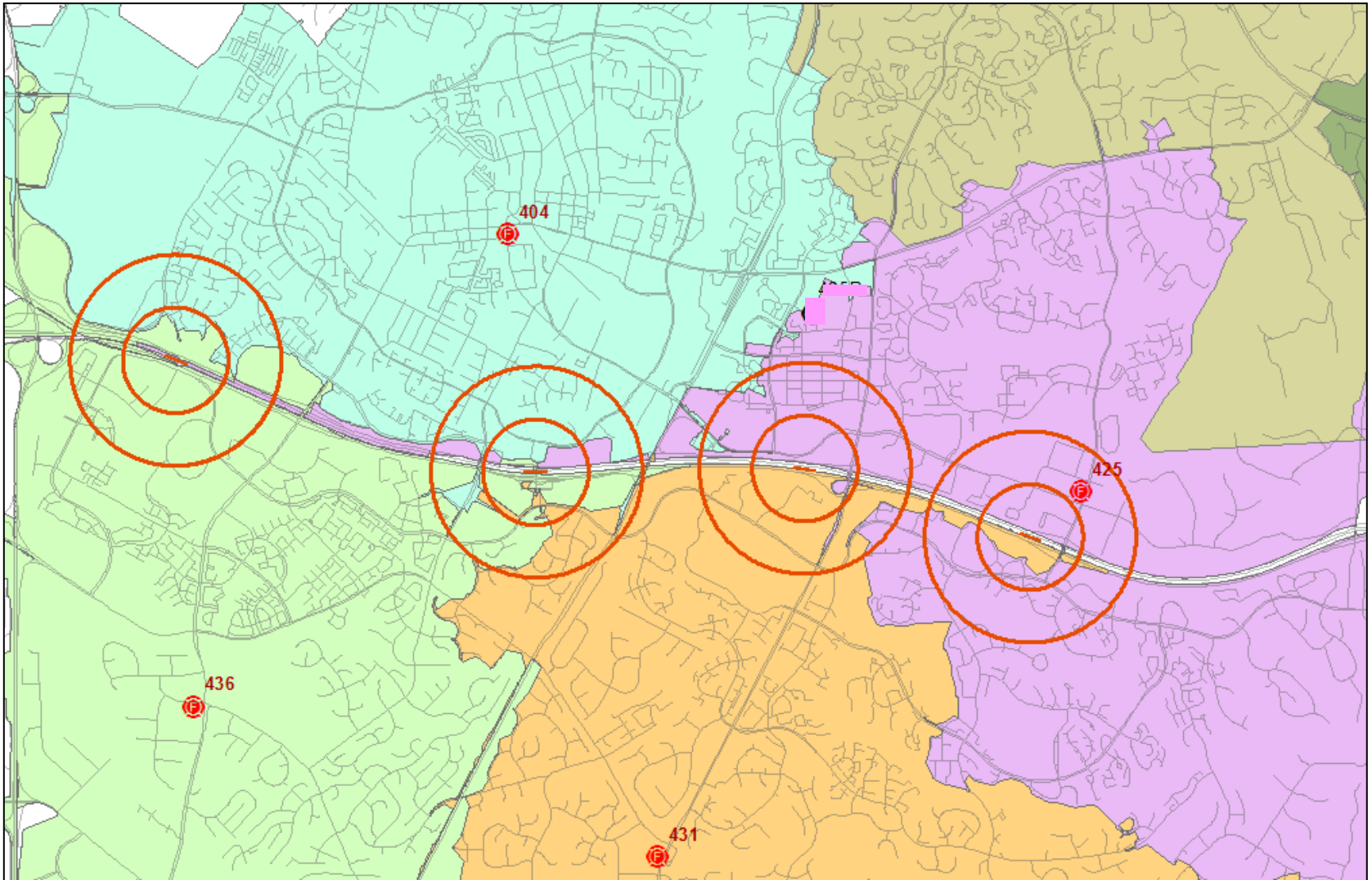


0 2,000 4,000 6,000 Feet



Map prepared by
Department of Planning & Zoning
June 2009, revised December 2010
G:\projects\local\p\projects\2008\Graphics_2008-9_North_Co_APR\Special Study\Reston-Dulles_Corridor_Special_Study_12-13-2010.mxd

Current Fire Station Response Coverage Areas (first dues)



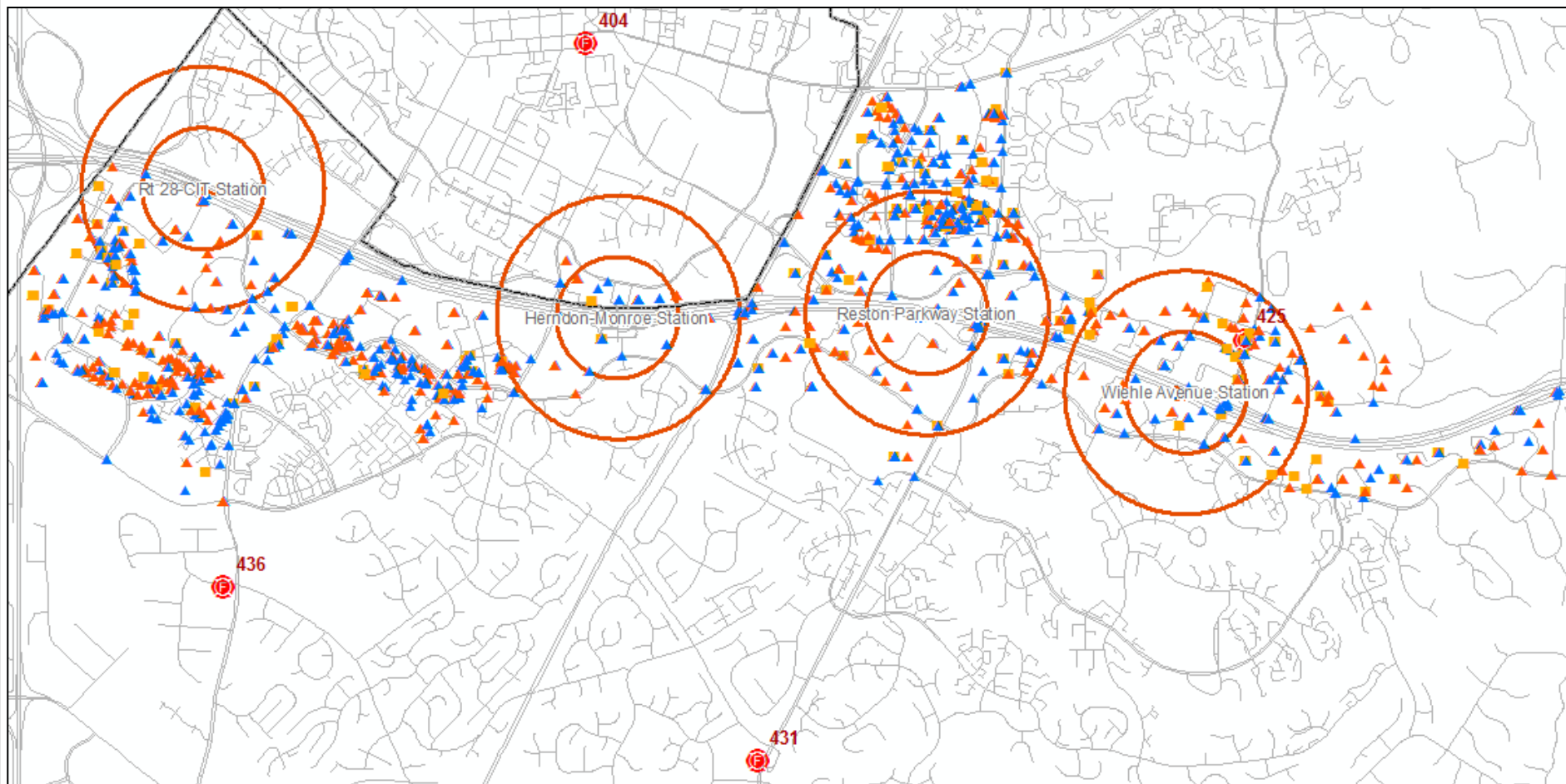
Fire station first due areas based on travel time from stations.

Fire Stations:

404 Herndon 425 Reston

431 Fox Mill 436 Frying Pan

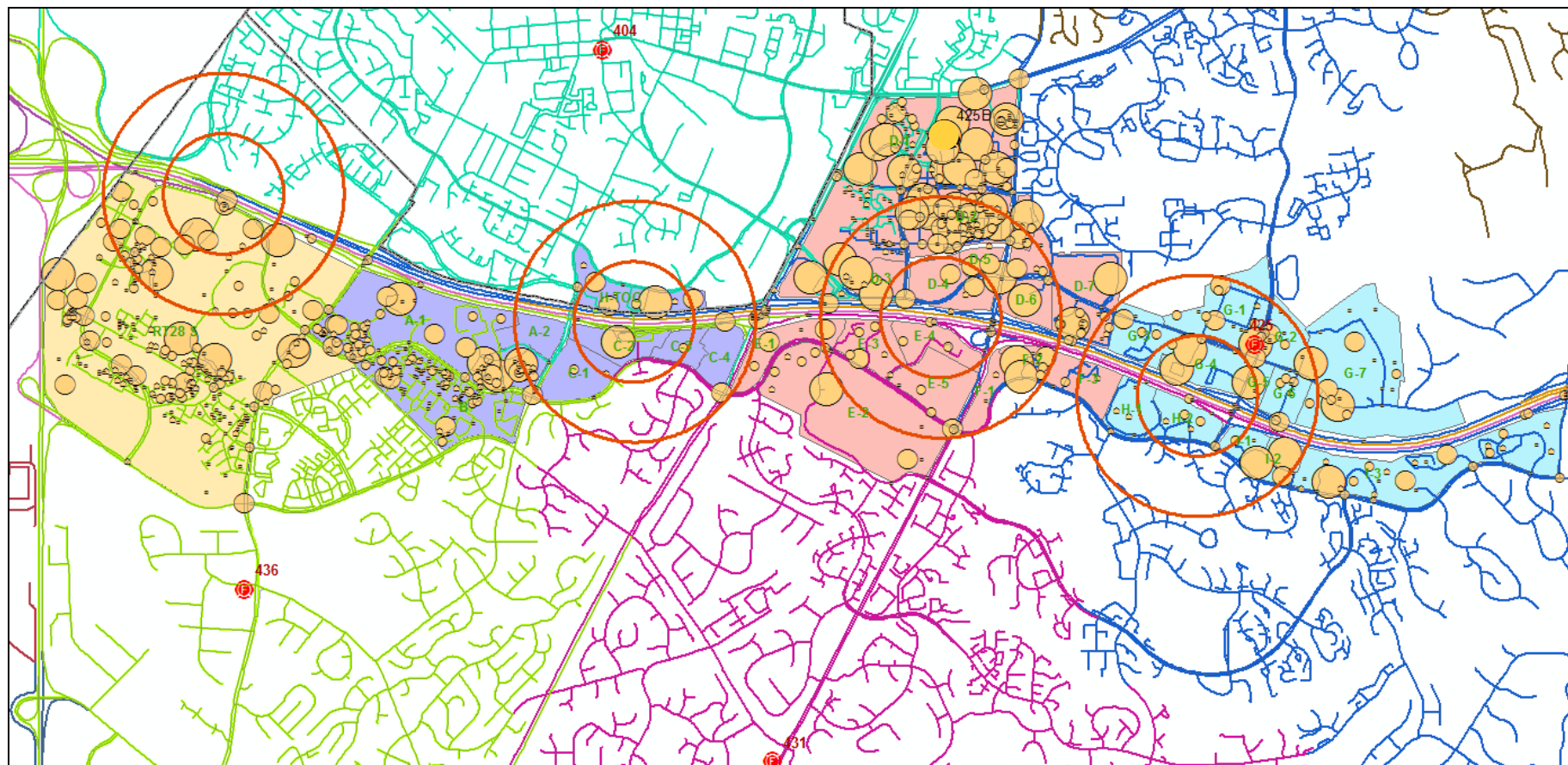
CY2011 Incidents in Study Area



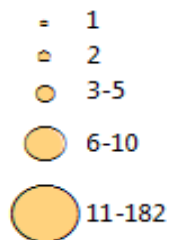
Total Incidents: 3,411 EMS: 1,989 Fire: 1,215 Public Service: 207
(ALS: 1,265 BLS: 729)
(Structure Fires: 24)

Reportable Incid. CY2011
▲ EMS
▲ Fire
■ Pub.Serv.

CY2011 Incident Counts within Study Area



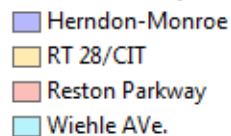
Incidents per Location



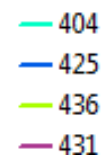
1/4 & 1/2 mile from Metro Stations



Reston Study Areas Assigned by Metro Station



First Due Streets



Fire Stations:

404 Herndon
425 Reston
431 Fox Mill
436 Frying Pan

Projected Incident Growth by Metro Station Area (Increase by 2030)

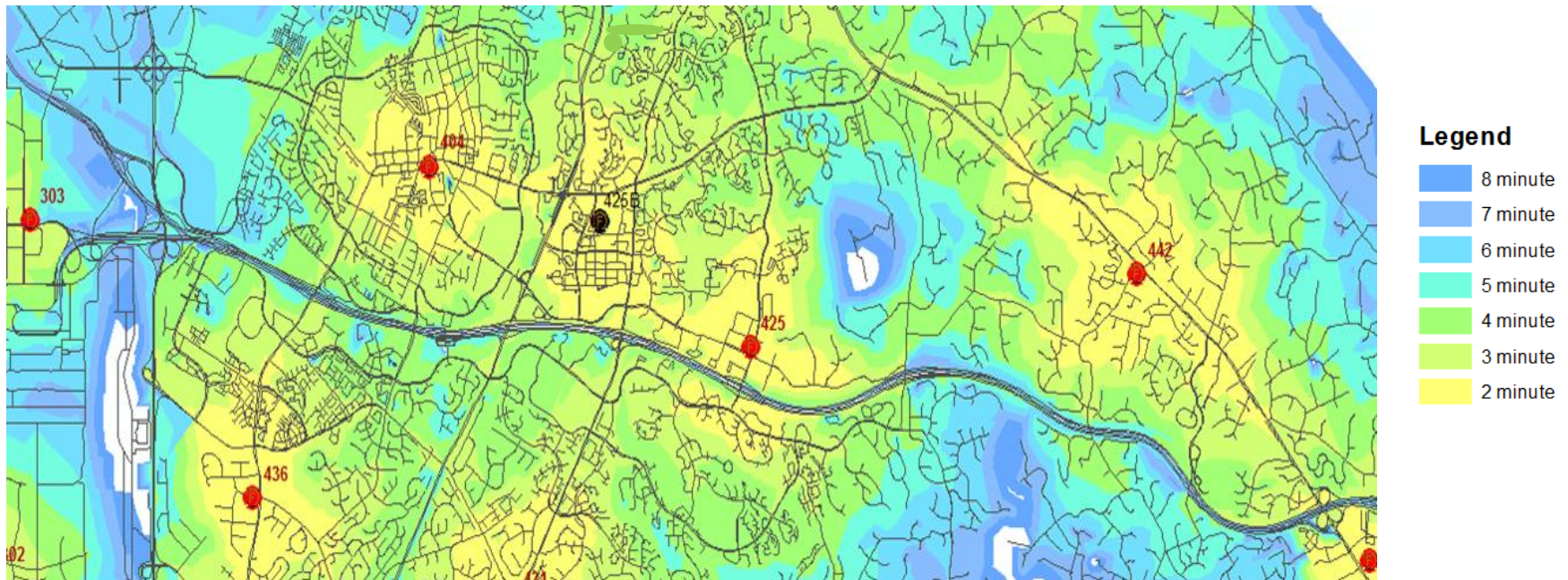
Reston-Dulles Corridor Study Area	2010 Existing Population	2030 Projected Population	Population Increase	CY 2011 Incidents	Projected 2030 Incidents	Incidents Increase
Wiehle Avenue	26,800	57,500	30,700	763	1,638	875
Reston Parkway/Town Center	51,730	90,800	39,070	1,472	2,584	1,112
Herndon-Monroe	18,267	45,474	27,207	520	1,295	775
Route 28 South	23,060	42,850	19,790	656	1,220	564
Total Increase	119,857	236,624	116,767	3,411	6,734	3,326*

*Note: Projected incidents in study area by 2030 will almost double the CY2011 incidents.

Emergency Response Travel Times

Additional station at North County Government Complex (425B).

Reston Town Center is within 2 minute travel time from new fire station.



Projected Incident Growth by Fire Station Area (Increase by 2030)

Fire Station First Due Areas	Total CY 2011 Incidents	Average Calls Per Day in CY 2011	Incident Increase due to Reston Study Population Growth	Total Projected Incidents by 2030	Average Calls Per Day by 2030
2 nd Reston Fire Station 25B	3,110	8.5	1,239	4,349	11.9
Reston Fire Station 25	1,780	4.9	899	2,679	7.3
Herndon Fire Station 4	2,046	5.6	64	2,110	5.8
Fox Mill Fire Station 31	1,630	4.5	11	1,641	4.5
Frying Pan Fire Station 36	2,243	6.1	1,113	3,356	9.2
Total			3,326		

Current Fire Station Capacity

Fire Station	Age	Site and Station Size*	Current Units	Number of Bays	Min. Staffing	New Station Plans
Herndon 4	1950	.25 acre 7,500 SF	Engine, Medic	4 small back-in bays	6	14,550 SF 4 back-in Bays E, 2M, R Late 2014
Reston 25	1972 1986 Renov.	.99 acre 7,740 SF	Engine, Medic, Truck	2 drive thru bays and ½ back-in bay	10	
Fox Mill 31	1979	1.66 acres 9,000 SF	Engine, Medic	2 drive thru bays	7	
Frying Pan 36	1988	1.68 acres 9,500 SF	Engine, Medic, Truck	3 drive thru bays	9	

*Note: Standard fire station size is 14,500 square feet with four apparatus bays

Recommendations

- Add second Reston Fire Station in North County Government Complex.
 - Standard size fire station with 3 apparatus bays.
 - New station may be co-located within a building.
 - Minimum of two additional units: Engine and Medic.
 - Location will provide better coverage for travel and vertical response times.
- Herndon Fire Station 4
 - Approved plans include demolishing existing station and rebuilding a larger station onsite.
 - Capacity for two additional units: Rescue and Medic.
 - Estimated completion 2014-2015.
- Ongoing analysis of incident activity based on development.
 - A second Medic may be needed at Frying Pan Fire Station by 2030.